

Sheet 1 of 2

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. S-100,612	Serial No. 10/607,589
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant(s) Betty S. Jorgensen et al.	
37 CFR 1.98(b)		Filing Date 06/26/2003	Group 1724

U.S. PATENTS DOCUMENTS											
EXAMINER INITIAL	PATENT NUMBER						ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
RHS	R	E	2	6	0	6	5	07/19/1966	Carl S. Marvel et al.	260	47
RHS	2	8	9	5	9	4	8	07/21/1959	Keith Clark Brinker et al.	260	78.4
RHS	3	6	9	9	0	3	8	10/17/1972	Abraham A. Boom	210	23
RHS	3	7	2	0	6	0	7	03/13/1973	Willard C. Brinegar	210	23
RHS	3	7	3	7	0	4	2	06/05/1973	Abraham A. Boom	210	321
RHS	3	8	2	2	2	0	2	07/02/1974	Harvey Herbert Hoehn	210	23
RHS	4	0	2	0	1	4	2	04/26/1977	Howard J. Davis et al.	264	347
RHS	4	1	5	4	9	1	9	05/15/1979	Martin B. Sheratte	528	186

FOREIGN PATENT DOCUMENTS											
EXAMINER INITIAL	PATENT NUMBER						ISSUE DATE	COUNTRY	CLASS	SUB CLASS	Translation YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)	
RHS	J. S. Young, B. S. Jorgensen, B. F. Espinoza, M. W. Weimer, G. D. Jarvinen, Christopher J. Orme, Alan K. Wertsching, Eric S. Peterson, Vivek Khare, Alan R. Greenberg, and Scott Hopkins, "Polymeric-Metallic Composite Membranes for High-Temperature Applications, pp. 1-7, published November (2001)
RHS ✓	Herward Vogel and C. S. Marvel, "Polybenzimidazoles, New Thermally Stable Polymers," Journal of Polymer Science, Vol. L, pp. 511-639, (1961)
RHS ✓	Herward Vogel and C. S. Marvel, "Polybenzimidazoles II," Journal of Polymer Science, Part A, Vol. 1, pp. 1531-1541, (1963)
RHS ✓	Robert C. Dye et al., "Meniscus Membranes for Separations," U. S. Application S/N 09/826,484, filed April 4, 2001

EXAMINER: <i>Robert H. Spitzer</i>	DATE CONSIDERED: <i>February 15, 2005</i>
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RHS	4 4 4 8 6 8 7	05/15/1984	Donald G. J. Wang	210	500	12/17/1982
RHS	4 9 3 3 0 8 3	06/12/1990	R. Sidney Jones, Jr.	210	490	04/15/1985
RHS	Lloyd M. Robeson, "Correlation of Separation Factor Versus Permeability for Polymeric Membranes," Journal of Membrane Science, Vol. 62, pp. 165-185, (1991)					
RHS	M. E. Rezac and W. J. Koros, "Preparation of Polymer-Ceramic Composite Membranes with Thin Defect-Free Separating Layers," Journal of Applied Polymer Science, Vol. 46, pp. 1927-1938, (1992)					
RHS	W. J. Koros and G. K. Fleming, "Membrane-Based Gas Separation," Journal of Membrane Science, Vol. 83, pp. 1-80, (1993)					
RHS	Hidetoshi Kita, Tetsuya Inada, Kazuhiro Tanaka, and Ken-ichi Okamoto, "Effect of Photocrosslinking of Permeability and Permselectivity of Gases Through Benzophenone-Containing Polyimide," Journal of Membrane Science, Vol. 87, pp. 139-147, (1994)					
RHS	May-Britt Hägg, "Membranes in Chemical Processing A Review of Applications and Novel Developments," Separation and Purification Methods, Vol. 27, pp. 51-168, (1998)					
RHS	Claudia Staudt-Bickel and William J. Koros, "Improvement of CO ₂ /CH ₄ Separation Characteristics of Polyimides by Chemical Crosslinking," Journal of Membrane Science, Vol. 155, pp. 145-154, (1999)					
RHS	Y. Liu, C. Pan, M. Ding, and J. Xu, "Effect of Crosslinking Distribution on Gas Permeability and Permselectivity of Crosslinked Polyimides," European Polymer Journal, Vol. 35, pp. 1739-1741, (1999)					
RHS	William J. Koros and Rajiv Mahajan, "Pushing the Limits of Possibilities for Large Scale Gas Separation: Which Strategies?," Journal of Membrane Science, vol. 175, pp. 181-196, (2000)					
RHS	Rajiv Mahajan and William Koros, "Mixed Matrix Membrane Materials with Glassy Polymers, Part 2," Polymer Engineering and Science, Vol. 42, No. 7, pp. 1432-1441, July 2002					

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DATE CONSIDERED:

February 15, 2005

*EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.